

**Listing of Claims:**

No amendments have been made to the claims, and this listing is provided for reference only.

- 5     1 (original): An authentication method used in a digital versatile disk (DVD) system for  
generating an authentication code according to an inquiring code so as to authenticate  
a playback device, the inquiring code comprising a first portion and a second portion  
both with at least one bit;  
the method comprising:  
10     generating a first sub-authentication code according to the first portion of the  
inquiring code;  
generating a second sub-authentication code according to the second portion of the  
inquiring code; and  
combining the first sub-authentication code and the second sub-authentication code to  
15     form the authentication code.
- 2 (original): The authentication method of claim 1, wherein each of the inquiring code  
and the authentication code has bit length of eight, and each of the first portion of the  
inquiring code, the second portion of the inquiring code, the first sub-authentication  
20     code, and the second sub-authentication code has bit length of four.
- 3 (original): The authentication method of claim 2, wherein a mapping relationship  
between the first sub-authentication code, the second sub-authentication code, and the  
authentication code conforms to a pre-table defined in a specification of the digital  
25     versatile disk system.
- 4 (original): The authentication method of claim 2, wherein a mapping relationship  
between the first sub-authentication code, the second sub-authentication code, and the

authentication code conforms to a post-table defined in a specification of the digital versatile disk system.

5 (original): An authentication circuit used in an authentication process of a digital versatile disk (DVD) system for generating an authentication code according to an inquiring code so as to authenticate a playback device, the inquiring code comprising a first portion and a second portion both with at least one bit; the authentication circuit comprising:

10 a first encoder for generating a first sub-authentication code according to only the first portion of the inquiring code; and

a second encoder for generating a second sub-authentication code according to only the second portion of the inquiring code;

wherein the authentication code is generated according to the first sub-authentication code and the second sub-authentication code.

15 6 (original): The authentication circuit of claim 5, wherein each of the inquiring code and the authentication code has bit length of eight, and each of the first portion of the inquiring code, the second portion of the inquiring code, the first sub-authentication code, and the second sub-authentication code has bit length of four.

20 7 (original): The authentication circuit of claim 6, wherein a mapping relationship between the first sub-authentication code, the second sub-authentication code, and the authentication code conforms to a pre-table defined in a specification of the digital versatile disk system.

25 8 (original): The authentication circuit of claim 6, wherein a mapping relationship between the first sub-authentication code, the second sub-authentication code, and the authentication code conforms to a post-table defined in a specification of the digital

Appl. No. 10/064,043  
Amdt. dated September 01, 2006  
Reply to Office action of August 09, 2006

versatile disk system.